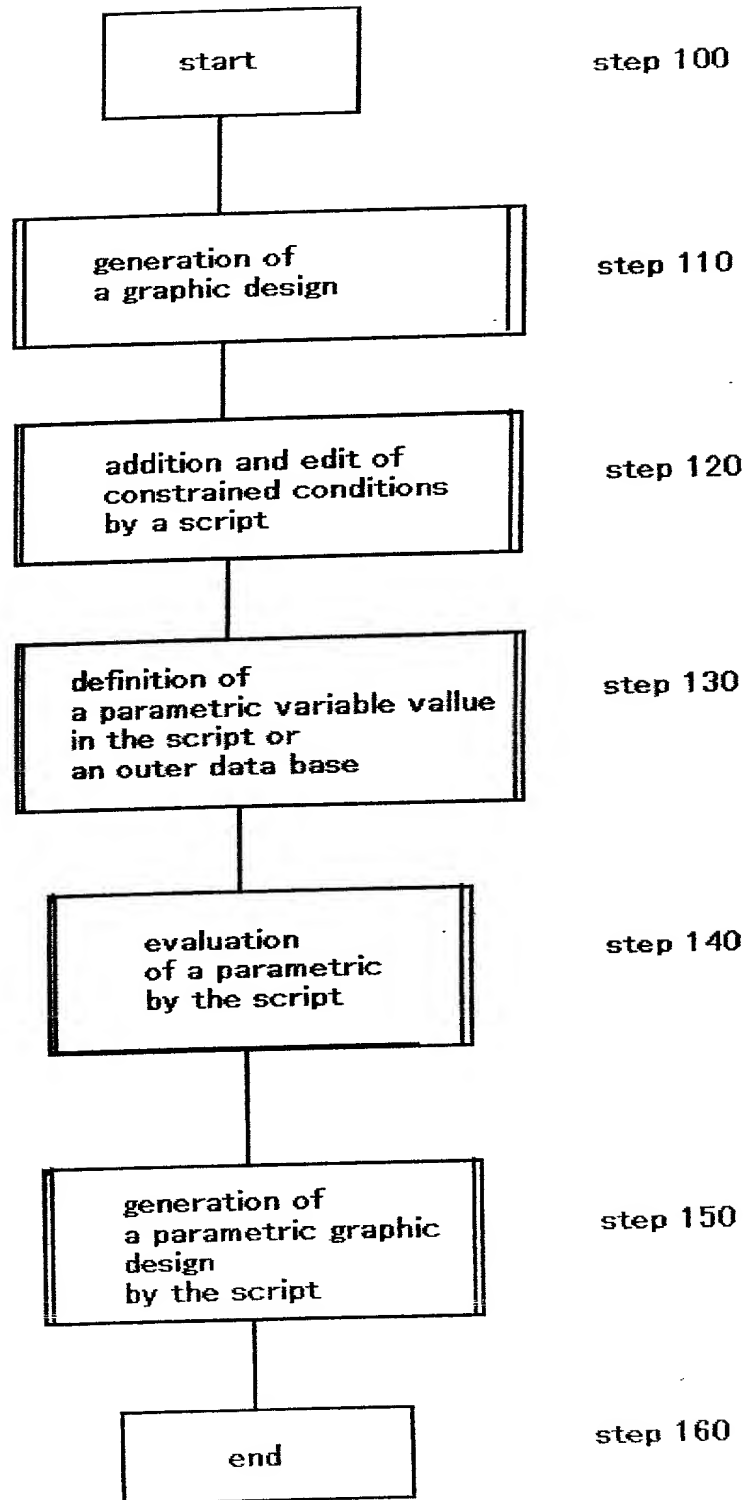


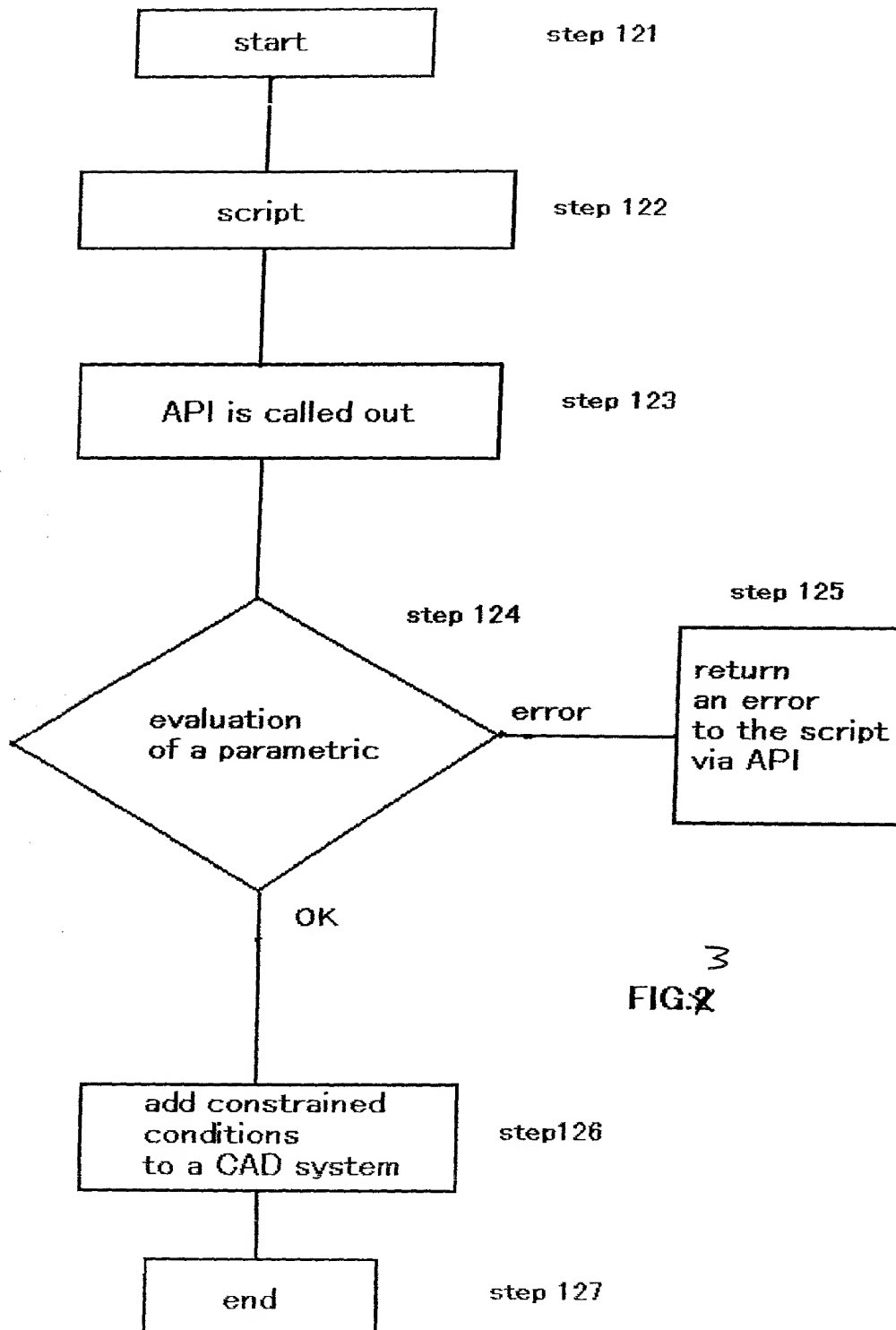
FIG. 1

<entire flow>



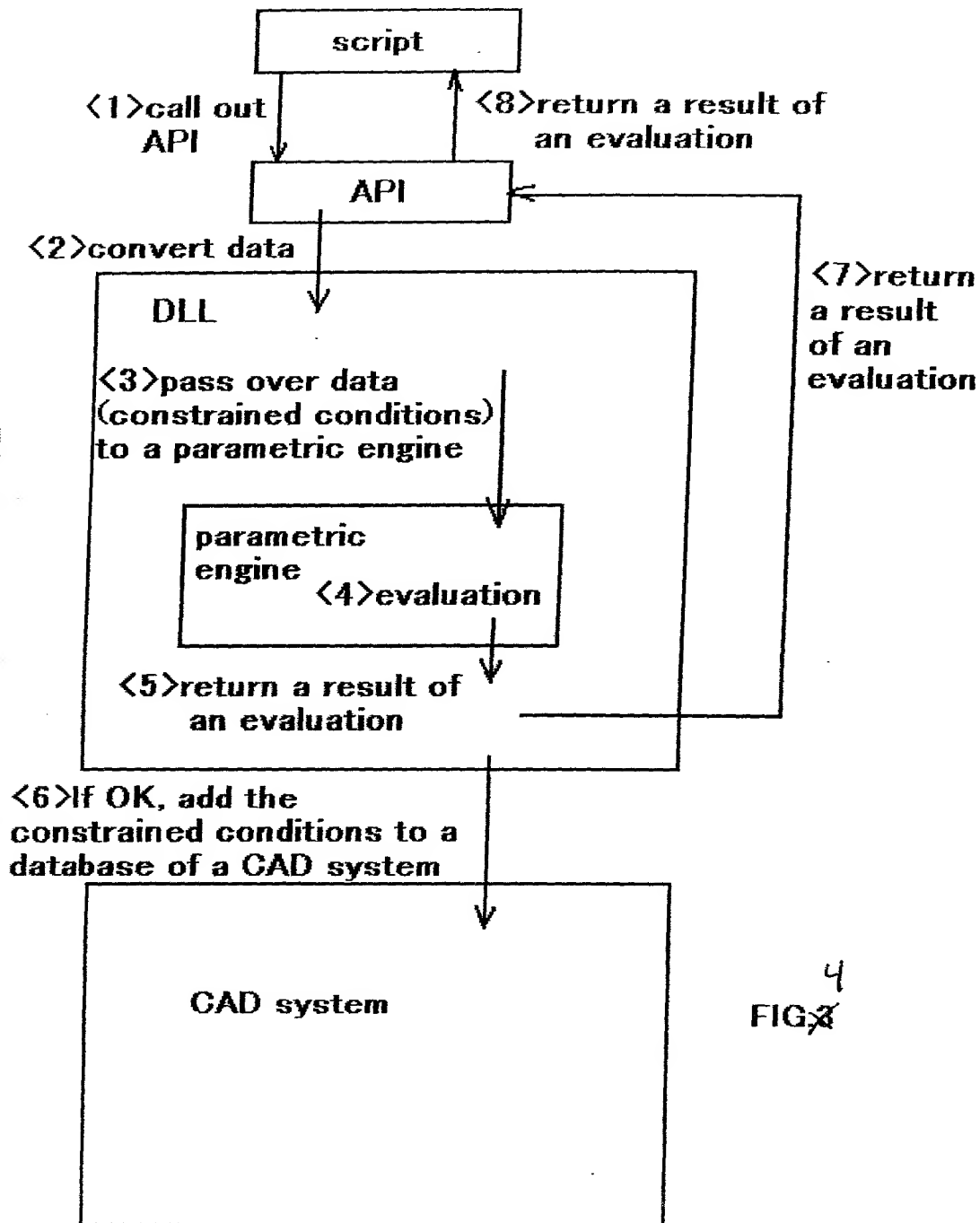
2
Fig. 1

<addition and edit of constrained conditions by a script>



3
FIG. 2

<data flow at the time of addition and edit of
constrained conditions>



4
FIG. 4

<data flow at the time of addition and edit of
constrained conditions : B>

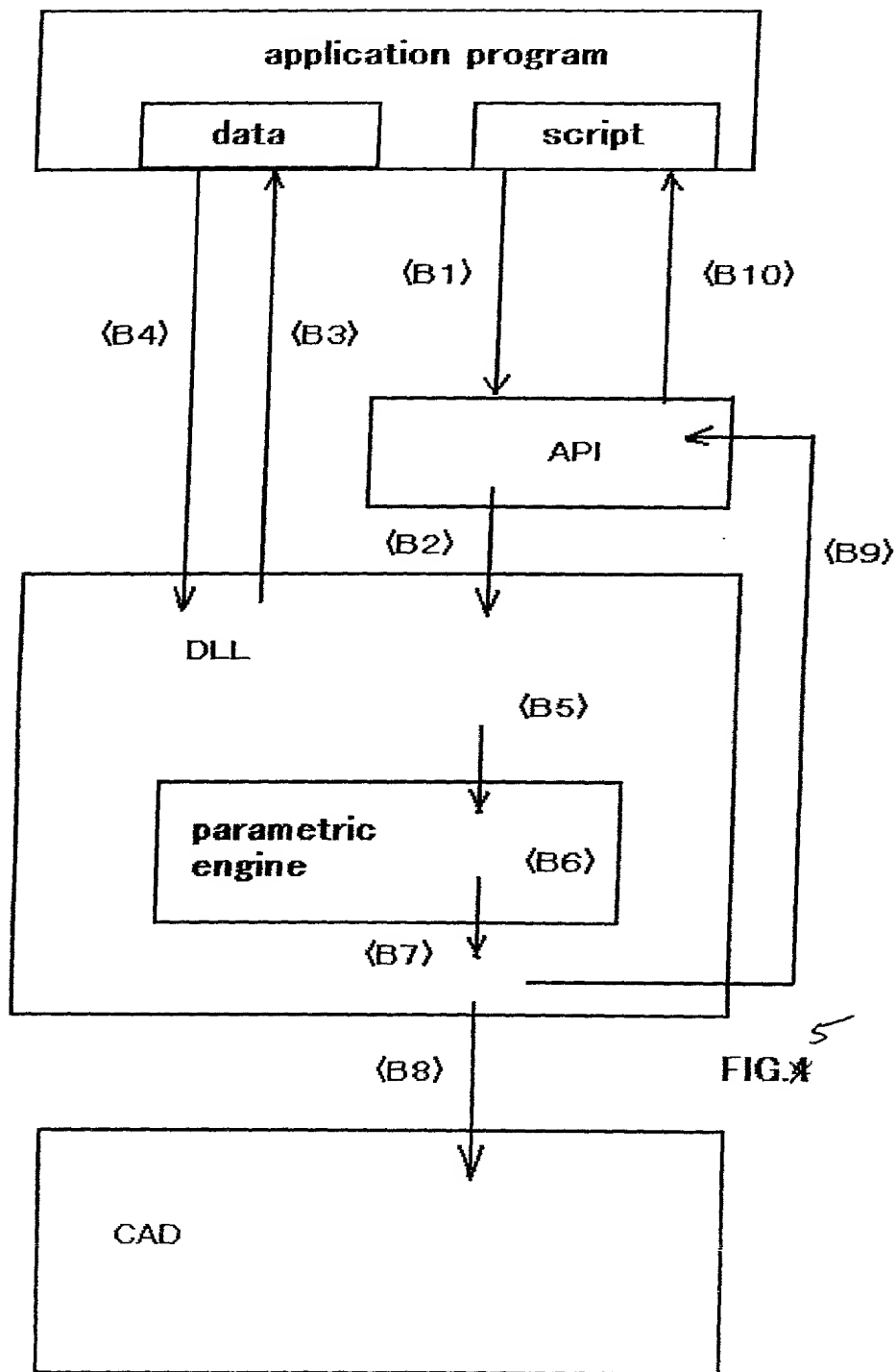


FIG. 5

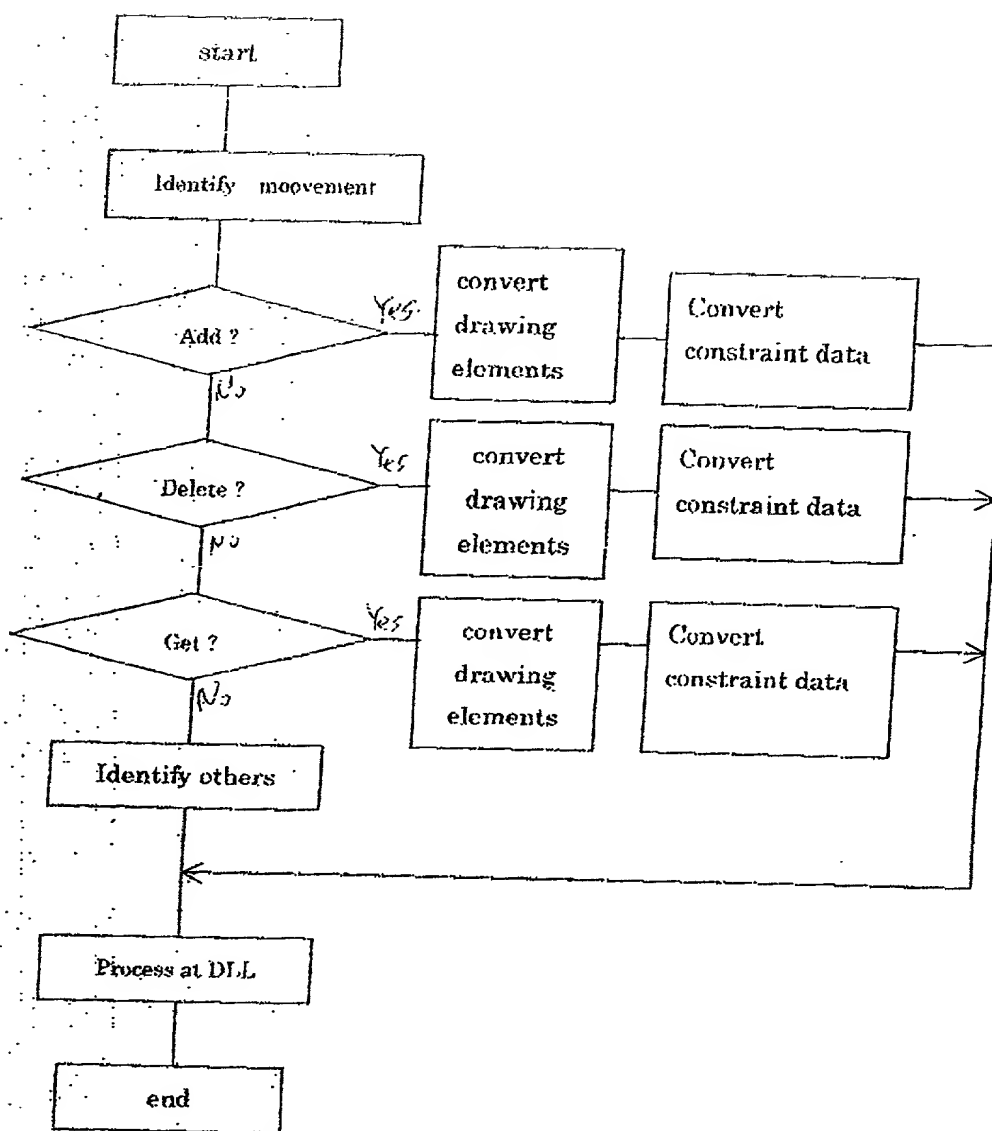


FIG. 6

'a sample of addition of constrained conditions

Function SampleAddConstrain()

Dim aCircle As Object

Dim aDimRadius As Object

Dim PntCnt(2) As Double

Dim PntCrd(2) As Double

PntCnt(0) = 4

PntCnt(1) = 0

PntCnt(2) = 0

PntCrd(0) = PntCnt(0) + 0.1

PntCrd(1) = PntCnt(1)

PntCrd(2) = PntCnt(2)

Set aCircle = theModelSpace.AddCircle(PntCnt, 0.1)

Set aDimRadius = theModelSpace.AddDimRadial(PntCnt, PntCrd, 1)

'constrain a size of a radius measure line into a variable A

PcnAddValCnst1 aDimRadius.handle, 10, 1, 1, 0.1, "A", 0

'commonly constrain a center of a circle and a radius measure line

PcnAddCnst2 aCircle.handle, aDimRadius.handle, 20, 5, 5

'constrain a size of a circle and a radius measure line in the same way

PcnAddCnst2 aCircle.handle, aDimRadius.handle, 26, 1, 1

'add a variable A

PcnAddCnstVar "A", "0.5"

End Function

7
FIG. 5

'an insert sample using DLL

```
Private Function Insert(fileName As String, paramStr As String)
```

```
    Dim insType As Long
```

```
    Dim optionSw As Long
```

```
    Dim insPntX As Double
```

```
    Dim insPntY As Double
```

```
    Dim insPntZ As Double
```

```
    Dim insScale As Double
```

```
    Dim insAngle As Double
```

```
    Dim ret As Long
```

```
    insPntX = 100#
```

```
    insPntY = 100#
```

```
    insPntZ = 0#
```

```
    insType = INSTYPE_EXPLODE
```

```
    insScale = 1#
```

```
    insAngle = 30#
```

```
    optionSw = OPTION_CURRENT_LAYER Or
```

```
OPTION_REMOVE_DIMENSION
```

```
    ret = PgfInsertParts(fileName, insPntX, insPntY, insPntZ, insType,  
insScale, insAngle, optionSw, paramStr)
```

```
End Function
```

```
Private Function InsertPart(paramStr As String)
```

```
    Insert "sample¥DLL¥Insert¥sample.dwg", paramStr
```

```
End Function
```

```
Sub VAL()
```

```
    InsertPart "VAL.WIDTH=50,HEIGHT=30,LENGTH=15"
```

```
End Sub
```

```
Sub EXCEL()
```

```
    InsertPart "EXCEL:sample¥DLL_Insert¥Book1.xls,sheet1,S1"
```

```
End Sub
```

FIG. 8

<prior art>

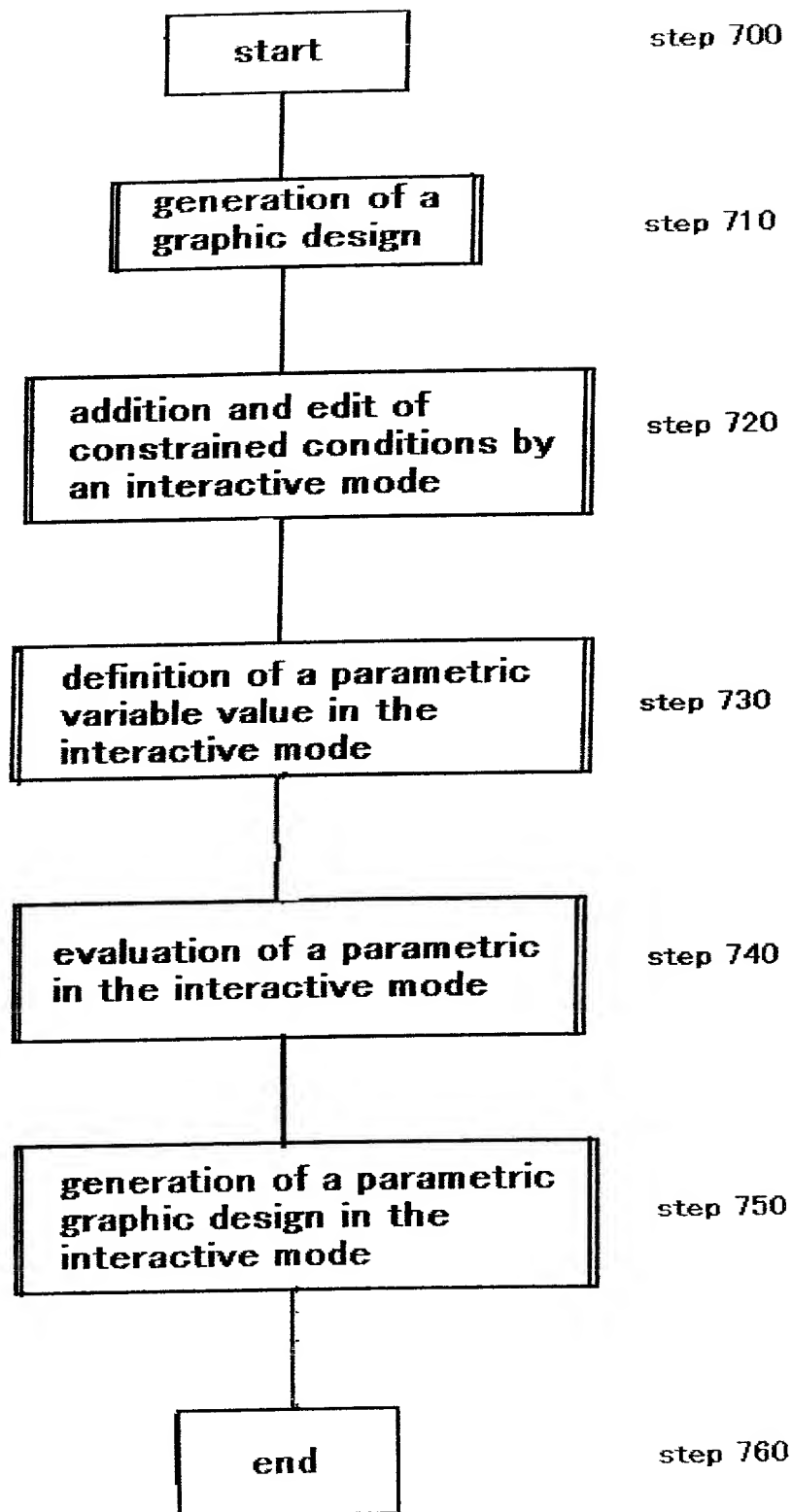


FIG. 7

9

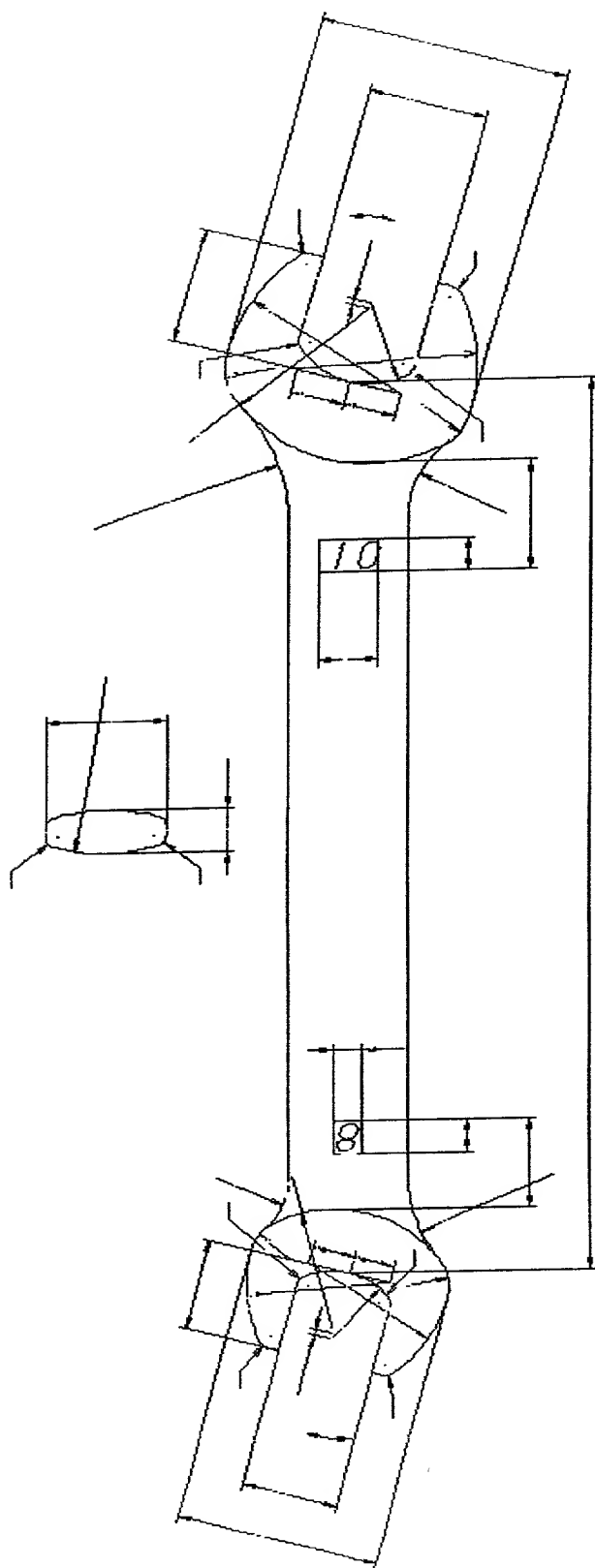


FIG. 810